

## ABSTRACT OF THE DISCLOSURE

5        APPARATUS AND METHOD OF MAKING A REDUCED SENSITIVITY SPIN  
         VALVE SENSOR APPARATUS IN WHICH A FLUX INJECTION  
         EFFICIENCY IS REDUCED

10        Apparatus and methods for reducing the sensitivity  
         of spin valve sensor read heads for magnetic tape  
         applications are provided. The apparatus and methods  
         compromise the large output gain derived from using state  
         of the art spin valve sensors in order to reduce the flux  
         capture and thus, the signal distortion in the spin valve  
         sensor. In order to provide a reduced sensitivity spin  
15        valve sensor, one or more of the basic sensitivity of the  
         spin valve, the flux carrying capability of the free  
         layer, and the flux injection efficiency of the spin  
         valve head structure are modified to reduce the flux  
         capture by the sensing layer.

T06000" 8246800